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## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/037,667

DATE: 08/01/2002 fb  
TIME: 13:26:43

Input Set : A:\10287-044001.txt

Output Set: N:\CRF3\08012002\J037667.raw

4 <110> APPLICANT: Morgan, Bruce A.  
 6 <120> TITLE OF INVENTION: REGULATION OF NEURAL DEVELOPMENT BY  
 7 DAEDALOS  
 9 <130> FILE REFERENCE: 10287-044001  
 11 <140> CURRENT APPLICATION NUMBER: 10/037,667  
 C--> 12 <141> CURRENT FILING DATE: 2002-07-23  
 14 <150> PRIOR APPLICATION NUMBER: 60/243,110  
 15 <151> PRIOR FILING DATE: 2000-10-25  
 17 <160> NUMBER OF SEQ ID NOS: 13  
 19 <170> SOFTWARE: FastSEQ for Windows Version 4.0  
 21 <210> SEQ ID NO: 1  
 22 <211> LENGTH: 537  
 23 <212> TYPE: PRT  
 24 <213> ORGANISM: Mus musculus  
 26 <400> SEQUENCE: 1  
 27 Met Glu Ser Leu Phe Cys Glu Ser Ser Gly Asp Ser Ser Leu Glu Lys  
 28 1 5 10 15  
 29 Glu Phe Leu Gly Ala Pro Val Gly Pro Ser Val Ser Thr Pro Asn Ser  
 30 20 25 30  
 31 Gln His Ser Ser Pro Ser Arg Ser Leu Ser Ala Asn Ser Ile Lys Val  
 32 35 40 45  
 33 Glu Met Tyr Ser Asp Glu Glu Ser Ser Arg Leu Leu Gly Pro Asp Glu  
 34 50 55 60  
 35 Arg Leu Leu Asp Lys Asp Asp Ser Val Ile Val Glu Asp Ser Leu Ser  
 36 65 70 75 80  
 37 Glu Pro Leu Gly Tyr Cys Asp Gly Ser Gly Pro Glu Pro His Ser Pro  
 38 85 90 95  
 39 Gly Gly Ile Arg Leu Pro Asn Gly Lys Leu Lys Cys Asp Val Cys Gly  
 40 100 105 110  
 41 Met Val Cys Ile Gly Pro Asn Val Leu Met Val His Lys Arg Ser His  
 42 115 120 125  
 43 Thr Gly Glu Arg Pro Phe His Cys Asn Gln Cys Gly Ala Ser Phe Thr  
 44 130 135 140  
 45 Gln Lys Gly Asn Leu Leu Arg His Ile Lys Leu His Ser Gly Glu Lys  
 46 145 150 155 160  
 47 Pro Phe Lys Cys Pro Phe Cys Asn Tyr Ala Cys Arg Arg Arg Asp Ala  
 48 165 170 175  
 49 Leu Thr Gly His Leu Arg Thr His Ser Val Ser Ser Pro Thr Val Gly  
 50 180 185 190  
 51 Lys Pro Tyr Lys Cys Asn Tyr Cys Gly Arg Ser Tyr Lys Gln Gln Ser  
 52 195 200 205  
 53 Thr Leu Glu Glu His Lys Glu Arg Cys His Asn Tyr Leu Gln Ser Leu  
 54 210 215 220

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Input Set : A:\10287-044001.txt

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```

55 Ser Thr Asp Ala Gln Ala Leu Thr Gly Gln Pro Gly Asp Glu Ile Arg
56 225                230                235                240
57 Asp Leu Glu Met Val Pro Asp Ser Met Leu His Pro Ser Thr Glu Arg
58                245                250                255
59 Pro Thr Phe Ile Asp Arg Leu Ala Asn Ser Leu Thr Lys Arg Lys Arg
60                260                265                270
61 Ser Thr Pro Gln Lys Phe Val Gly Glu Lys Gln Met Arg Phe Ser Leu
62                275                280                285
63 Ser Asp Leu Pro Tyr Asp Val Asn Ala Ser Gly Gly Tyr Glu Lys Asp
64                290                295                300
65 Val Glu Leu Val Ala His His Gly Leu Glu Pro Gly Phe Gly Gly Ser
66 305                310                315                320
67 Leu Ala Phe Val Gly Thr Glu His Leu Arg Pro Leu Arg Leu Pro Pro
68                325                330                335
69 Thr Asn Cys Ile Ser Glu Leu Thr Pro Val Ile Ser Ser Val Tyr Thr
70                340                345                350
71 Gln Met Gln Pro Ile Pro Ser Arg Leu Glu Leu Pro Gly Ser Arg Glu
72                355                360                365
73 Ala Gly Glu Gly Pro Glu Asp Leu Gly Asp Gly Gly Pro Leu Leu Tyr
74                370                375                380
75 Arg Ala Arg Gly Ser Leu Thr Asp Pro Gly Ala Ser Pro Ser Asn Gly
76 385                390                395                400
77 Cys Gln Asp Ser Thr Asp Thr Glu Ser Asn His Glu Asp Arg Ile Gly
78                405                410                415
79 Gly Val Val Ser Leu Pro Gln Gly Pro Pro Pro Gln Pro Pro Pro Thr
80                420                425                430
81 Ile Val Val Gly Arg His Ser Pro Ala Tyr Ala Lys Glu Asp Pro Lys
82                435                440                445
83 Pro Gln Glu Gly Leu Leu Arg Gly Thr Pro Gly Pro Ser Lys Glu Val
84                450                455                460
85 Leu Arg Val Val Gly Glu Ser Gly Glu Pro Val Lys Ala Phe Lys Cys
86 465                470                475                480
87 Glu His Cys Arg Ile Leu Phe Leu Asp His Val Met Phe Thr Ile His
88                485                490                495
89 Met Gly Cys His Gly Phe Arg Asp Pro Phe Glu Cys Asn Ile Cys Gly
90                500                505                510
91 Tyr His Ser Gln Asp Arg Tyr Glu Phe Ser Ser His Ile Val Arg Gly
92                515                520                525
93 Glu His Lys Val Gly Ser Cys Arg Ile
94                530                535
96 <210> SEQ ID NO: 2
97 <211> LENGTH: 532
98 <212> TYPE: PRT
99 <213> ORGANISM: Mus musculus
101 <400> SEQUENCE: 2
102 Met His Cys Thr Leu Thr Met Glu Thr Asp Ala Ile Asp Gly Tyr Ile
103 1                5                10                15
104 Thr Cys Asp Asn Glu Leu Ser Pro Glu Gly Glu His Ala Asn Met Ala
105                20                25                30

```

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Input Set : A:\10287-044001.txt

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```

106 Ile Asp Leu Thr Ser Ser Thr Pro Asn Gly Gln Gln Ala Ser Pro Ser
107          35          40          45
108 His Met Thr Ser Thr Asn Ser Val Lys Leu Glu Met Gln Ser Asp Glu
109          50          55          60
110 Glu Cys Asp Arg Gln Pro Leu Ser Arg Glu Asp Glu Ile Arg Gly His
111 65          70          75          80
112 Asp Glu Gly Ser Ser Leu Glu Glu Ala Leu Ile Glu Ser Ser Glu Val
113          85          90          95
114 Ala Asp Asn Arg Lys Val Gln Asp Leu Gln Gly Glu Arg Gly Ile Arg
115          100          105          110
116 Leu Pro Asn Gly Lys Leu Lys Cys Asp Val Cys Gly Met Val Cys Ile
117          115          120          125
118 Gly Pro Asn Val Leu Met Val His Lys Arg Ser His Thr Gly Glu Arg
119          130          135          140
120 Pro Phe His Cys Asn Gln Cys Gly Arg Ser Phe Thr Gln Lys Gly Asn
121 145          150          155          160
122 Leu Leu Arg His Ile Lys Leu His Ser Gly Glu Lys Pro Phe Lys Cys
123          165          170          175
124 Pro Phe Cys Ser Tyr Ala Cys Arg Arg Arg Asp Ala Leu Thr Gly His
125          180          185          190
126 Leu Arg Thr His Ser Val Gly Lys Pro His Lys Cys Asn Tyr Cys Gly
127          195          200          205
128 Arg Ser Tyr Lys Gln Arg Thr Ser Leu Glu Glu His Lys Glu Arg Cys
129          210          215          220
130 His Asn Tyr Leu Gln Asn Val Ser Met Glu Ala Ala Gly Gln Val Met
131 225          230          235          240
132 Ser His His Val Pro Pro Met Glu Asp Cys Lys Glu Gln Glu Pro Ile
133          245          250          255
134 Met Asp Asn Asn Ile Ser Leu Val Ala Phe Glu Arg Pro Ala Val Ile
135          260          265          270
136 Glu Lys Leu Thr Ala Asn Met Gly Lys Arg Lys Ser Ser Thr Pro Gln
137          275          280          285
138 Lys Phe Val Gly Glu Lys Leu Met Arg Phe Ser Tyr Pro Asp Ile His
139          290          295          300
140 Phe His Met Asn Leu Thr Tyr Glu Lys Glu Ala Glu Leu Met Gln Ser
141 305          310          315          320
142 His Met Met Asp Gln Ala Ile Asn Asn Ala Ile Thr Tyr Leu Gly Ala
143          325          330          335
144 Glu Ala Leu His Pro Leu Met Gln His Ala Pro Ser Thr Ile Ala Glu
145          340          345          350
146 Val Ala Pro Val Ile Ser Ser Ala Tyr Ser Gln Val Tyr His Pro Asn
147          355          360          365
148 Arg Ile Glu Arg Pro Ile Ser Arg Glu Thr Ser Asp Ser His Glu Asn
149          370          375          380
150 Asn Met Asp Gly Pro Ile Ser Leu Ile Arg Pro Lys Ser Arg Pro Gln
151 385          390          395          400
152 Glu Arg Glu Ala Ser Pro Ser Asn Ser Cys Leu Asp Ser Thr Asp Ser
153          405          410          415
154 Glu Ser Ser His Asp Asp Arg Gln Ser Tyr Gln Gly Asn Pro Ala Leu

```

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TIME: 13:26:43

Input Set : A:\10287-044001.txt

Output Set: N:\CRF3\08012002\J037667.raw

```

155          420          425          430
156 Asn Pro Lys Arg Lys Gln Ser Pro Ala Tyr Met Lys Glu Asp Val Lys
157          435          440          445
158 Ala Leu Asp Ala Thr Lys Ala Pro Lys Gly Ser Leu Lys Asp Ile Tyr
159          450          455          460
160 Lys Val Phe Asn Gly Glu Gly Glu Gln Ile Arg Ala Phe Lys Cys Glu
161 465          470          475          480
162 His Cys Arg Val Leu Phe Leu Asp His Val Met Tyr Thr Ile His Met
163          485          490          495
164 Gly Cys His Gly Tyr Arg Asp Pro Leu Glu Cys Asn Ile Cys Gly Tyr
165          500          505          510
166 Arg Ser Gln Asp Arg Tyr Glu Phe Ser Ser His Ile Val Gly Gly Gln
167          515          520          525
168 His Thr Phe His
169          530
171 <210> SEQ ID NO: 3
172 <211> LENGTH: 507
173 <212> TYPE: PRT
174 <213> ORGANISM: Mus musculus
176 <400> SEQUENCE: 3
177 Met Glu Asp Ile Gln Pro Thr Val Glu Leu Lys Ser Thr Glu Glu Gln
178 1          5          10          15
179 Pro Leu Pro Thr Glu Ser Pro Asp Ala Leu Asn Asp Tyr Ser Leu Pro
180          20          25          30
181 Lys Pro His Glu Ile Glu Asn Val Asp Ser Arg Glu Ala Pro Ala Asn
182          35          40          45
183 Glu Asp Glu Asp Ala Gly Glu Asp Ser Met Lys Val Lys Asp Glu Tyr
184          50          55          60
185 Ser Asp Arg Asp Glu Asn Ile Met Lys Pro Glu Pro Met Gly Asp Ala
186 65          70          75          80
187 Glu Glu Ser Glu Met Pro Tyr Ser Tyr Ala Arg Glu Tyr Ser Asp Tyr
188          85          90          95
189 Glu Ser Ile Lys Leu Glu Arg His Val Pro Tyr Asp Asn Ser Arg Pro
190          100          105          110
191 Thr Ser Gly Lys Met Met Cys Asp Val Cys Gly Leu Ser Cys Ile Ser
192          115          120          125
193 Phe Asn Val Leu Met Val His Lys Arg Ser His Thr Gly Glu Arg Pro
194          130          135          140
195 Phe Gln Cys Asn Gln Cys Gly Ala Ser Phe Thr Gln Lys Gly Asn Leu
196 145          150          155          160
197 Leu Arg His Ile Lys Leu His Thr Gly Glu Lys Pro Phe Lys Cys His
198          165          170          175
199 Leu Cys Asn Tyr Ala Cys Gln Arg Arg Asp Ala Leu Thr Gly His Leu
200          180          185          190
201 Arg Thr His Ser Val Glu Lys Pro Tyr Lys Cys Glu Phe Cys Gly Arg
202          195          200          205
203 Ser Tyr Lys Gln Arg Ser Ser Leu Glu Glu His Lys Glu Arg Cys Arg
204          210          215          220
205 Ala Phe Leu Gln Asn Pro Asp Leu Gly Asp Ala Ala Ser Val Glu Ala

```

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TIME: 13:26:43

Input Set : A:\10287-044001.txt

Output Set: N:\CRF3\08012002\J037667.raw

```

206 225          230          235          240
207 Arg His Ile Lys Ala Glu Met Gly Ser Glu Arg Ala Leu Val Leu Asp
208          245          250          255
209 Arg Leu Ala Ser Asn Val Ala Lys Arg Lys Ser Ser Met Pro Gln Lys
210          260          265          270
211 Phe Ile Gly Glu Lys Arg His Cys Phe Asp Ala Asn Tyr Asn Pro Gly
212          275          280          285
213 Tyr Met Tyr Glu Lys Glu Asn Glu Met Met Gln Thr Arg Met Met Asp
214          290          295          300
215 Gln Ala Ile Asn Asn Ala Ile Ser Tyr Leu Gly Ala Glu Ala Phe Arg
216 305          310          315          320
217 Pro Leu Val Gln Thr Pro Pro Ala Pro Thr Ser Glu Met Val Pro Val
218          325          330          335
219 Ile Ser Ser Val Tyr Pro Ile Ala Leu Thr Arg Ala Asp Met Pro Met
220          340          345          350
221 Gly Ala Pro Gln Glu Met Glu Lys Lys Arg Ile Leu Leu Pro Glu Lys
222          355          360          365
223 Ile Leu Pro Ser Glu Arg Gly Leu Ser Pro Asn Asn Ser Ala Gln Asp
224          370          375          380
225 Ser Thr Asp Thr Asp Ser Asn His Glu Asp Arg Gln His Leu Tyr Gln
226 385          390          395          400
227 Gln Ser His Val Val Leu Pro Gln Ala Arg Asn Gly Met Pro Leu Leu
228          405          410          415
229 Lys Glu Val Pro Arg Ser Phe Glu Leu Lys Pro Pro Pro Ile Cys
230          420          425          430
231 Leu Arg Asp Ser Ile Lys Val Ile Asn Lys Glu Gly Glu Val Met Asp
232          435          440          445
233 Val Phe Arg Cys Asp His Cys His Val Leu Phe Leu Asp Tyr Val Met
234          450          455          460
235 Phe Thr Ile His Met Gly Cys His Gly Phe Arg Asp Pro Phe Glu Cys
236 465          470          475          480
237 Asn Met Cys Gly Tyr Arg Ser His Asp Arg Tyr Glu Phe Ser Ser His
238          485          490          495
239 Ile Ala Arg Gly Glu His Arg Ala Met Leu Lys
240          500          505
242 <210> SEQ ID NO: 4
243 <211> LENGTH: 515
244 <212> TYPE: PRT
245 <213> ORGANISM: Mus musculus
247 <400> SEQUENCE: 4
248 Met Asp Val Asp Glu Gly Gln Asp Met Ser Gln Val Ser Gly Lys Glu
249 1          5          10          15
250 Ser Pro Pro Val Ser Asp Thr Pro Asp Glu Gly Asp Glu Pro Met Pro
251          20          25          30
252 Val Pro Glu Asp Leu Ser Thr Thr Ser Gly Ala Gln Gln Asn Ser Lys
253          35          40          45
254 Ser Asp Arg Gly Met Ala Ser Asn Val Lys Val Glu Thr Gln Ser Asp
255          50          55          60
256 Glu Glu Asn Gly Arg Ala Cys Glu Met Asn Gly Glu Glu Cys Ala Glu

```

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/037,667

DATE: 08/01/2002  
TIME: 13:26:44

Input Set : A:\10287-044001.txt  
Output Set: N:\CRF3\08012002\J037667.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:6; N Pos. 15,18,21  
Seq#:7; N Pos. 6,15,18  
Seq#:11; N Pos. 7

## VERIFICATION SUMMARY

PATENT APPLICATION: US/10/037,667

DATE: 08/01/2002

TIME: 13:26:44

Input Set : A:\10287-044001.txt

Output Set: N:\CRF3\08012002\J037667.raw

L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:394 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:398 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:6  
L:399 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0  
L:409 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:413 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:7  
L:414 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0  
L:457 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:461 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:11  
L:462 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0